



# ATTREX 2012 Science Meeting A/C & Deployment Status



- A/C Cold Temperature Restrictions
  - Northrop Grumman Tasks:
    1. Minimum Ambient Temperature Restriction
      - ID Components with critical temperature above  $-101^{\circ}\text{F}$  (TAT, (199.3K), engine  $T_{\text{crit}}$ )
      - ID possible component recertification processes or monitor, insulate or heat options

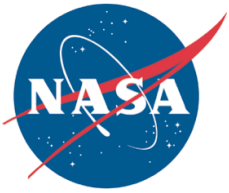


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- A/C Cold Temperature Restrictions
  - Northrop Grumman Tasks Cont'd:
    2. Develop Exposure time limits
      - Time limit based on component current temperature restrictions
      - Time limit based on  $-5^{\circ}\text{F}$  below component current temperature restrictions
      - Change flight operation limits to include these exposure time limits



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- A/C Cold Temperature Restrictions
  - Northrop Grumman Tasks Cont'd:
    3. Revision of Flight Operations Procedure to allow determination of TAT from science payload (MMS)  
(a/c system has acknowledged errors)



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- A/C Cold Temperature Restrictions
  - Northrop Grumman Tasks Cont'd:
    4. Develop parametric model of GH fuel system temperature response to ambient temperature
      - Use fuel system and ambient temperature data acquired from ATTREX 2011
      - Parameterize output to use in NASA flight planning so in-flight fuel temperature faults can be avoided



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- Andersen Air Force Base, Guam
  - Northrop Grumman Tasks Cont'd:
    1. If Possible provide an Engineering disposition of what needs to be done (short of IMMC software mods) to permit AV-6 to operate from AAFB.

**Scheduled Completion of all Tasks 9/28/2012**